An apparatus comprising:

wherein the elongated edges are opposite one another;

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a substrate having a first elongated edge and a second elongated edge,

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a plurality of memory devices disposed on the substrate; and

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a plurality of channels extending from the first elongated edge to the second

elongated edge, wherein each of the plurality of memory devices is coupled to one

of the plurality of channels.

2. An apparatus as redited in claim 1 wherein the substrate has a first

side and a second side, the plurality of memory devices being disposed on both

sides of the substrate.

 $\frac{1}{2}$ An apparatus as recited in claim 1 wherein the substrate has a first

side and a second side, the plurality of channels extending across both sides of the

substrate.

4. An apparatus as recited in claim\1 wherein each channel includes a

plurality of conductors, the plurality of conductors following a substantially linear

path across the substrate.

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5. An apparatus as recited in claim 1 wherein each channel includes a

plurality of conductors, the plurality of conductors having lengths that are

approximately equal.

6.	An appar	atus as re	ecited in	claim 1	wherein	the s	substrate	includes	a
plurality of	electrical c	ontacts al	long the	first and	second el	onga	ted edges	.	

7. An apparatus comprising:

a first substrate having a plurality of memory devices disposed thereon and a first channel portion extending across the first substrate;

a second substrate having a plurality of memory devices disposed thereon and a second channel portion extending across the second substrate; and

a first connector configured to couple the first channel portion to the second channel portion, wherein the first connector includes a first slot that receives an edge of the first substrate and a second slot that receives an edge of the second substrate.

- 8. An apparatus as recited in claim 7 wherein the coupling of the first channel portion to the second channel portion through the connector forms a channel.
- 9. An apparatus as recited in claim 7 wherein the first channel portion extends from a first elongated edge of the first substrate to a second elongated edge of the first substrate.
- 10. An apparatus as recited in claim 7 wherein the second channel portion extends from a first elongated edge of the second substrate to a second elongated edge of the second substrate.

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- 12. An apparatus as recited in claim 7 wherein the second channel portion includes a plurality of conductors following a substantially linear path across the second substrate.
- An apparatus as recited in claim 7 wherein the first channel portion 13. includes a plurality of conductors having lengths that are approximately equal.
- An apparatus as recited in claim 7 wherein the second channel 14. portion includes a plurality of conductors having lengths that are approximately equal.
- An apparatus as recited in claim 7 further including a third substrate 15. -coupled-to-the first connector.-
- **16.** An apparatus as recited in claim 15 wherein the third substrate includes a third channel portion extending across the third substrate.

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	17.	An appara	tus as	recite	d in	claim	15	wherein	the	third	subs	strate
inclu	des a t	hird channe	l porti	on ext	endir	ng acro	ss th	ne third	subs	strate,	the	third
chan	nel port	ion including	g a plu	rality	f co	nducto	s fol	lowing a	ı sub	stantia	ally l	inear
path	across t	he third subs	trate.									

- 18. An apparatus as recited in claim 15 wherein the third substrate includes a third channel portion extending across the third substrate, the third channel portion including a plurality of conductors having lengths that are approximately equal.
- 19. An apparatus as recited in claim 7 further including a second connector having a first slot that receives an edge of the first substrate and a second slot that receives an edge of the second substrate, wherein the edges received by the second connector are on the opposite side of the substrates from the edges received by the first connector
 - -20. An apparatus as recited in claim 19 wherein the second connector is upled to a motherboard.
 - 21. An apparatus comprising:
 - a motherboard; and
- a plurality of pairs of memory modules coupled to the motherboard, each pair of memory modules including:
 - a first memory module having a first channel portion extending across the first memory module;

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a second memory module having a second channel portion extending across the second memory module; and

a first connector coupling the first memory module to the second memory module, wherein the first connector includes a first slot for receiving an edge of the first memory module and a second slot for receiving an edge of the second memory module.

22. An apparatus as recited in claim 21 further including a second connector that couples the first memory module to the second memory module.

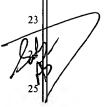
An apparatus as recited in claim 21 wherein a channel extends across the first memory module, the second memory module, and the first connector.

24. A method comprising:

arranging channel portions on a substrate such that the channel portions extend from one edge of the substrate to the opposite edge of the substrate;

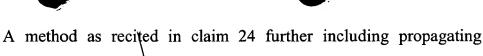
arranging channel portion conductors such that the length of the channel portion conductors between opposite edges of the substrate is approximately equal; and

coupling together a pair of substrates using a connector, a channel extending across the pair of substrates and the connector.



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signals through the channel.



- 26. A method as recited in claim 24 further including arranging a plurality of memory devices on the substrate such that each memory device is coupled to a channel portion.
- 27. A method as recited in claim 26 further including propagating signals through the channel portions to perform memory operations.
- 28. A method as recited in claim 24 wherein each channel portion includes a plurality of conductors, each of the conductors having approximately equal lengths along the entire length of the channel portion.
- 29. A method as recited in claim 24 wherein each channel portion includes a plurality of conductors following a substantially linear path across the substrate.
- 30. A method as recited in claim 24 wherein channel portions are arranged on both sides of the substrate.

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